

Purchasing Receipts

PO No	Supplier	Line Item No	Ref No	Rel Terms	Purchased Item	Description	For Project No	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
P004020	MEC002-VU			1 Net 30	M17-4-H1150-R3.500	Round Bar 3.500mm ; MATERIAL: 17-4 PH CONDITION H1150 PURCHASE MATERIAL: 17-4 PH / S17400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE SPECIFICATION: AMS 5643 OR ASTM A564			36	36/7/13/2018		S091272	Stock	7/11/2018	\$ 112.93 / ft	1	\$4,065.48	Metaux Castle		
					M17-4-H1150-R3.000	Round Bar 3.000mm ; MATERIAL: 17-4 PH CONDITION H1150 PURCHASE MATERIAL: 17-4 PH / S17400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE SPECIFICATION: AMS 5643 OR ASTM A564			24			S091273	Stock	7/11/2018	\$ 80.75 / ft	1	\$1,938.00	Metaux Castle		



**PACKING SLIP /
CERTIFICATE OF CONFORMANCE**

A. M. Castle & Co.

Page 1 of 1

Pack Slip No:2935866

Ship From:	Sold To:		Ship To:		Deliver To:	
A. M. Castle & Co. Janesville 3800 Enterprise Drive Janesville, WI 53546	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped	F.O.B.	Freight Terms	Carrier	BOL No	Delivery No	
26-JUN-2018	ORIGIN	Prepaid	CASTLE NETWORK	2949048	121909319	
Shipment Details	Final Destination Branch -					
Order No	Line No	Item No	Description			
5175008	1	39990.MO	3.0000.RD.17CR-4NI STAINLESS CF.HI1150.132.0000-156.0000 - CUT IN HALF SPECIFICATIONS: AMS 5643 ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com	Ordered Qty	Invoice Qty	
Purchase Order No	Part Number			2.00 PCS	24.0000 FT	
Details	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS					
Mill/Source	Heat Number	Mech ID	PCS	Width (IN)	Length (IN)	Shipped Qty (LBS)
VALBRUNA CORPORATION	273955- <i>A</i>		2			624.0000

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the requirement. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date: _____

Name: _____



PACKING SLIP/
CERTIFICATE OF CONFORMANCE

A. M. Castle & Co.

Page 1 of 1

Shipment Details						Final Destination Branch -		
Ship From: A. M. Castle & Co. Janesville 3800 Enterprise Drive Janesville, WI 53546	Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA			
Date Shipped	F.O.B.	Freight Terms	Carrier	BOL No	Delivery No			
26-JUN-2018	ORIGIN	Prepaid	CASTLE NETWORK	2949046	121906163			
Purchase Order No	Part Number		Ordered Qty	Invoice Qty				
40200			3.00 PCS	36.0000 FT				
Details	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and cert to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS							
Mill/Source	Heat Number	Mech ID	PCS	Width (IN)	Length (IN)	Shipped Qty (LBS)		
VALBRUNA CORPORATION	273305 <i>At</i>		3			1259.3350		

Pack Slip No:2935864

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We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative: _____ Date: _____ Name: _____



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO040200

Supplier:	MEC002-VU Metaux Castle P.O. Box 4090 Stn A Toronto ON M5W 0E9 Canada	PO No:	PO040200
		PO Date:	6/14/18
		Due Date:	6/29/18
		Purchase Order Revision:	
		Revision Date:	
		Ship-To Contact:	Baker, Diane Phone: dbaker@dartaero.com
Ship To:	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	Via:	Ground
		Pymt Terms:	Net 30
		Freight Terms:	
		Special Comments:	

REVISED

E-MAILED
JUN 15 2018

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1 <i>AT</i>		M17-4-H1150-R3.500		17-4 SS H1150 Round Bar 3.500" : MATERIAL: 17-4 PH CONDITION H1150 PURCHASE MATERIAL: 17-4 PH / S I7400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE SPECIFICATION: AMS 5643 OR ASTM A564	Firmed	5/29/18	36 ft	0 ft	36 ft	\$112.93/ft	\$4,065.48

Line Item Note NOTE: CUT IN SECTION OF 6 FT

Items											
Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
2		M17-4-H1150-R3.000		17-4 H1150 Round Bar 3.000" : MATERIAL: 17-4 PH CONDITION H1150 PURCHASE MATERIAL: 17-4 PH / S I7400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE SPECIFICATION: AMS 5643 OR ASTM A564	Firmed	6/29/18	24 ft	0 ft	24 ft	\$80.75/ft	\$1,938.00
Line Item Note: NOTE: CUT BAR IN SECTION OF 6 FT											
Grand Total: \$6,003.48											
Order Notes											
<p>Procurement Quality Clauses</p> <p>A005 right of entry</p> <p>A012 chemical and physical test report</p> <p>A016 personnel qualification</p> <p>A017 raw material identification (as applicable)</p> <p>A026 certification of material conformance</p> <p>A041 quality management system</p> <p>A042 part notification by supplier</p> <p>A043 retention of quality documents</p> <p>A048 counterfeit parts avoidance, detection, mitigation and disposition program</p> <p>A049 supplier awareness</p> <p>Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.</p>											

Plex 6/15/18 11:38 AM dart.lavoie.chantal

Diane Baker

From: Desbiens, Marc <mdesbien@amcastle.com>
Sent: Thursday, June 14, 2018 1:51 PM
To: Diane Baker
Cc: Chantal Lavoie
Subject: RE: PO040200

Hi Diane,

Ok, we will cut the 12 ft bars in half

For the 3"dia \$ 80.75 Ft

Delivery for both items is 8-9 days

Thanks

Marc Desbiens
Inside sales representative
Castle Metals, Montreal, QC
Direct line 514-795-8176
1-800-806-6660 ext 52226
Fax # 1-855-892-6370

Customized Supply Chain Solutions for Your Metal Needs

From: Diane Baker [mailto:dbaker@dartaero.com]
Sent: Thursday, June 14, 2018 1:46 PM
To: Desbiens, Marc
Cc: Chantal Lavoie
Subject: RE: PO040200

Hi Marc,

No, we want to receive in 6' lengths due to the material being so heavy.

I will also need this in 3" - # M17-4-H1150-R3.000

17-4 H1150 Round Bar 3.000" : MATERIAL: 17-4 PH CONDITION H1150 - 24 Feet cut to 6 ft lengths.

Please provide price and delivery.

Thank you
Diane

From: Desbiens, Marc <mdesbien@amcastle.com>
Sent: Thursday, June 14, 2018 1:42 PM

To: Diane Baker <dbaker@dartaero.com>
Cc: Chantal Lavoie <clavoie@dartaero.com>
Subject: FW: PO040200

Hi Diane,

There's a note on the PO: "cut to 6" lengths"

Is this for internal use ?

Thanks

Marc Desbiens
Inside sales representative
Castle Metals, Montreal, QC
Direct line 514-795-8176
1-800-806-6660 ext 52226
Fax # 1-855-892-6370

Customized Supply Chain Solutions for Your Metal Needs

From: Diane Baker [<mailto:dbaker@dartaero.com>]
Sent: Thursday, June 14, 2018 9:56 AM
To: Desbiens, Marc
Cc: Chantal Lavoie
Subject: PO040200

Good morning Marc,
Please see attached PO040200, please confirm.

Thank you

Diane

Diane Baker
Purchasing Coordinator
DART AEROSPACE
T 1 613 632-5200 ext. 300
F 1 613 632-1053
E dbaker@dartaero.com
1 800 556-4166
www.dartaerospace.com

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VALBRUNA

SLATER STAINLESS, INC.
2400 TAYLOR STREET WEST - PO BOX 630
FORT WAYNE, IN 46802 USA
PHONE 260.434.2800 - FAX 260.434.2801

Product Certification Report

Report Number: 5468961

Certified on Mar 08, 2018 Page 1 of 2

Order I.D.	Order Date	Commodity Code		
M181701721 0010	2/10/18	23972		
Dim 1	Dim 2	Part ID	Customer I.D.	Customer Purchase Order
3.5000	.0000	273305	0008000061	436603
Product Shape	Product Surface			Customer Grade
Round	HRRT			17-4
Length (Inches)		Bill of Lading #	Weight	
132.000 Min.	156.000 Max.	PL18000215/1	007633 LBS	

A.M. CASTLE & CO
3800 ENTERPRISE DRIVE
Ship JANESVILLE, WI 53546
To

VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
FORT WAYNE, IN, IN 46802
Sold To

Lifts: 0039 0040 0041

ASME SA564-13	AISI 630	ASTM A484-17
Condition H-1150	3174-04 REV 41	EN 10204 3.1
AMS H 6875B	ASTM A 370-17	AMS 5643V

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Cb	Ta
.04	.48	.025	.001	.42	15.18	4.53	.29	3.31	.28	.00

BRINELL Type A device E10-15a

HBW

301

ROOM TEMP TENSILE ASTM E8-16a

TS (PSI)	.2%YS (PSI)	%EL (4d)	%RA
145400	127700	19.4	61.5

MAGNETIC PARTICLE to AMS2303F

FREQ SEV

AVG .00 .00

MACRO ASTM E340-15/E381-01(12)

MACRO

OK

PERCENT FERRITE (AMS 2315G)

% FERRITE	Etchant	Magnification X
AVG .0	Marbles	100

Solution heat treated at 1900 degrees F plus or minus 25 degrees, one hour minimum and air cooled.

Heat treated at 1150 degrees F for 4 hours and air cooled.

Reduction ratio 5 To 1 Min.

Electric Furnace melted; AOD refined.

Chemical testing to one or more of the listed ASTM methods:

E1019-11, E1086-14.

Location of tensile fracture: inside middle of gage length. %elong after fracture.

Chemical Analysis performed at Acciaierie Valbruna, Italy.

No mercury or low melting alloy contamination. No weld repair.

Material melted in Italy, manufactured in the United States.

Material conforms to listed specifications. DFARS compliant. Our heat treat furnaces use air atmosphere.

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services

Tad Landwehr

email: TLandwehr@valbruna.us

Tad Landwehr



VALBRUNA

SLATER STAINLESS, INC.

2400 TAYLOR STREET WEST - PO BOX 630
FORT WAYNE IN 46802 USA
PHONE 260.434.2800 - FAX 260.434.2801

Product Certification Report

Report Number: **5468961**

Certified on Mar 08, 2018 Page 2 of 2

Order ID.	Order Date	Commodity Code		
M181701721 0010	2/10/18	23972		
Dim 1	Dim 2	Heat ID.	Customer ID.	Customer Purchase Order
3.5000	.0000	273305	0008000061	436603
Product Shape			Customer Grade	
Round			17-4	
Length (Inches)		Bill of Lading #	Weight	
132.000 Min.		156.000 Max.	PL18000215/1	007633 LBS

A.M. CASTLE & CO
3800 ENTERPRISE DRIVE
Ship To JANESVILLE, WI 53546

VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
FORT WAYNE, IN, IN 46802
Sold To

Quality system is compliant with ISO 9001:2015. Produced in accordance with EN 10204 3.1.

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services

email: TLandwehr@valbruna.us

Tad Landwehr

SPECIFICATION CONTROL DRAWING

△ C PURCHASE MATERIAL: 17400 / TYPE 630 SS ROUND BAR
GRAIN MUST BE ALONG LENGTH OF BAR
MINIMUM YIELD STRENGTH PER TABLE
MINIMUM ULTIMATE STRENGTH PER TABLE

△ C SPECIFICATION: AMS 5643 Q/R ASTM A564
△ C PART NUMBER: M17-4-[HXXXX]-R | X XXX | WHERE: HXXXX SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)
O.D. X.XXX = DIAMETER (IN INCHES)

△ C MATERIAL CONDITION TABLE:

CODE (OMITTED)	CONDITION	MIN. YIELD TENSILE STRENGTH (KSI)	MIN. ULTIMATE TENSILE STRENGTH (KSI)
H900	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H925	H900	170	190
H1025	H925	155	170
H1075	H1025	145	155
H1100	H1075	125	145
H1150	H1100	115	140
CONDA	H1150 CONDITION A (SOLUTION TREATED)	105	135

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR
TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS

MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR
APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE
CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND
SHOULD ALWAYS BE HEAT TREATED

△ C EXAMPLES:

PART
4.000" DIAMETER BAR MIN.UTS = 150 KSI, MIN.YTS = 100 KSI
M17-4-R7000

2.500" DIAMETER BAR H900 CONDITION
M17-4-H900-R2.500

3.250" DIAMETER BAR H925 CONDITION
M17-4-H925-R3.250

0.750" DIAMETER BAR A CONDITION
M17-4-CONDA-R0.750

C	ADDED MATERIAL CONDITION (CR17-1071)	NO	17-09-14
B	REFORMATTED DWG. SR7000 TYPE 630 ADDED TO PURCHASE MATERIAL (2ND DB-1). ADD A564 SPEC 1(CB-1).	VS	10-05-20
A	NEW ISSUE	CP	05-03-16
REV.	BY	DATE	
DESIGN	NO	DART AEROSPACE LTD	
DRAWN	NO	HAWKESBURY, ONTARIO, CANADA	
CHECKED	CP	REV. C	
MFG. APPR.	RA	SHEET 1 OF 1	
APPROVED	WM	SCALE	
DE APPR.	CP	NTS	
DATE	17-09-14	DATE	

RELEASED [Signature] D [Signature] D
E[17]-728 E[17]-728
2017-10-31

C	ADDED MATERIAL CONDITION (CR17-1071)	NO	17-09-14
B	REFORMATTED DWG. SR7000 TYPE 630 ADDED TO PURCHASE MATERIAL (2ND DB-1). ADD A564 SPEC 1(CB-1).	VS	10-05-20
A	NEW ISSUE	CP	05-03-16
REV.	BY	DATE	
DESIGN	NO	DART AEROSPACE LTD	
DRAWN	NO	HAWKESBURY, ONTARIO, CANADA	
CHECKED	CP	REV. C	
MFG. APPR.	RA	SHEET 1 OF 1	
APPROVED	WM	SCALE	
DE APPR.	CP	NTS	
DATE	17-09-14	DATE	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-H1150-R3.500
 DATE: 18/07/12

PO / BATCH NO.: P00402025091272

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 36'
 QUANTITY INSPECTED: 36'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3.500"
 THICKNESS RECEIVED: 3.500"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	AMS5643
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	H7.273305
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 181 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT ID.</u>	SIGNED OFF BY: _____
DATE: <u>18/07/12</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



VALBRUNA

SLATER STAINLESS, INC.
101 TAYLOR STREET, WEST • PO BOX 570
HORNELL, NY 14843-0570 • USA
Phone: 800-343-1302 • Fax: 601-580-1302

Product Certification Report

Report Number: 5486501

Order ID:	Order Date	Certified on Apr 23, 2018		Page 2 of 2
M181702376_0010		399.00	Customer Purchase Order	
Dim 1	Dim 2	Heat ID	Customer ID	
3 .0000	.0000	273955	447771	Customer Name
Product Group	Product Name	Burnished	Cold Finished	
Round	Length (inches)	Bin or Lading #	Weight	
	.000 Min.	.000 Max	PW18001686/1	002490 LBS

A. M. CASTLE & CO
3800 ENTERPRISE DRIVE
Ship JANEVILLE, WI 53546
To

VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
Sold FORT WAYNE , IN, IN 46802
To

Material conforms to listed specifications. DFARS compliant. Our heat treat furnaces use air atmosphere.
Quality system is compliant with ISO 9001:2015. Produced in accordance with EN 10204 3.1.

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Manager Laboratory Services *Todd Landwehr*

email: TLandwehr@valbruna.us _____ Tel Landwehr

SPECIFICATION CONTROL DRAWING

C PURCHASE MATERIAL 174 PH / S17400 / TYPE 630 SS ROUND BAR
 GRIN MUST BE ALONG LENGTH OF BAR
 MINIMUM YIELD STRENGTH PER TABLE
 MINIMUM ULTIMATE STRENGTH PER TABLE

C SPECIFICATION:
C PART NUMBER:

C AMS 5643 OR ASTM A564
 M17-4: HHHHH-R | XXXX | COND O.D. | WHERE: HHHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)

C MATERIAL CONDITION TABLE:

CODE	CONDITION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
COND A	CONDITION A (SOLUTION TREATED)		

NOTES: MATERIAL IN H900 AND H925 CONDITIONS NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS

MATERIAL IN H800 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE
 CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

C EXAMPLES:

PART NUMBER
 4.000" DIAMETER BAR MIN UT S = 150 KSI, MIN YT S = 100 KSI | M174-RL000
 2.500" DIAMETER BAR H900 CONDITION | M174-H900-R2.500
 3.250" DIAMETER BAR H1025 CONDITION | M174-H1025-R3.250
 0.750" DIAMETER BAR A CONDITION | M174-CONDA-R0.750

REV.	DESIGN DRAWN	NO.	DART AEROSPACE LTD
C	REFORMED DWS S17400 TYPE 630 ADDED TO PURCHASE DWS REAL (ZN DS-1). ADD AS64 SPEC (C8-1).	NO	HAWKESBURY, ONTARIO, CANADA
B	PURCHASE DWS REAL (ZN DS-1). ADD AS64 SPEC (C8-1).	VS	REV. C
A	REF. PAR 084020A NEW ISSUE	CP	SHEET 1 OF 1
			SCALE NTS
			DATE 05-03-16

C APPROVED
C RELEASED
 2017-10-31
 E1717-TS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-H1150-R3.000
 DATE: 18/07/12

PO / BATCH NO.: P0040200

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3.000"
 THICKNESS RECEIVED: 3.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	Y <u>N</u>	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	Y <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	Y <u>N</u>	<u>AMS5643</u>
CORRECT THICKNESS	Y <u>N</u>	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	Y <u>N</u>	<u>AMS5643 HT: 273955</u>
CORRECT MATERIAL IDENTIFICATION	Y <u>N</u>	
CORRECT M# ON THE MATERIAL	Y <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AJ</u> <u>PD</u>	SIGNED OFF BY: _____
DATE: <u>18/07/12</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in